

Patent Claims

1. A waveguide filter formed from a substrate (S),
5 which is coated on the upper face with a structured metallic layer (TM) and has one or more lines (ML1, ML2) for carrying electromagnetic waves, and from a component (FB), with the component (FB) being fitted to the upper face of
10 the substrate (S) and with one side wall of the waveguide filter being formed by the structured metallic layer (TM) on the substrate (S), and with the other side walls of the waveguide filter being formed by the component (FB), and the with the waveguide filter having input and output points for coupling the electromagnetic waves carried in the lines (ML1, ML2) to the waveguide filter, and vice versa, characterized in that the lines (ML1, ML2) are metallic striplines.
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2. The waveguide filter as claimed in claim 1, characterized in that the component (FB) is a surface mounted device.
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3. The waveguide filter as claimed in claim 2, characterized in that the component (FB) has a circumferential web (ST) which rests on the structured metallic layer (TM) on the upper face of the substrate (S).
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4. The waveguide filter as claimed in one of the preceding claims, characterized in that the cross section of the component (FB) is chosen in accordance with the predetermined filter characteristics of the waveguide filter (HF).
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5. The waveguide filter as claimed in one of the preceding claims, characterized in that that side

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wall of the component (S) which is opposite the upper face of the substrate (S) has a structure (SK) which can be predetermined for the appropriate filter characteristics.

